Index to Theses and Dissertations in Agronomy and Soil Science

Prepared

by

Peter P. Rotar

Department of Agronomy and Soil Science
Hawaii Institute of Tropical Agriculture
and Human Resources
University of Hawaii at Manoa
Honolulu, Hawaii 96822

AGRSS-2

October, 1990

Theses and Dissertations
in
Agronomy and Soil Science.

The information presented here is complete through August, 1990. Four lists are presented. An alphabetical list of students and titles (citations) numbered in serial order; an abbreviated alphabetical title index keyed to the citations; a key-word index for the citations and a serial list of graduates with degree dates.

Department Theses and Dissertations carry different designations depending upon the year they were completed. Originally graduates received their advanced degree from the Graduate School, University of Hawaii, without discipline or department designation. The Department of Agronomy and Soil Science had two separate degree programs during the period 1960-1971; the M.Sc. and Ph.D. in Soil Science and the M.Sc. degree in Agronomy. In 1971 the two programs were merged and the M.Sc. and Ph.D. degrees are in Agronomy and Soil Science. The citations are correct as to degree designation as listed on the title page of the manuscripts as deposited in the Library.

Included in these lists are several theses and dissertations from outside of the department but are presented here in as much as they were either supported from grants within the department or were directly related to departmental research.

The information presented here was developed using a software program called PROCITE for handling individual records. Each record consists of the name, title, degree, date, committee members, abstract or summary taken from the theses/dissertation, and a set of index or key words. The entire file is available on diskette in the PROCITE format.

These theses and dissertations are available either in Hamilton Library, Hawaiian Pacific collection, or in the Department of Agronomy and Soil Science Library, University of Hawaii at Manoa.

Special thanks are due to Mr. Kevin Grace, Graduate Student in Agronomy and Soil Science, for his efforts in developing key word lists for each manuscript.

Theses and Dissertations
Citations

1. Abouna, Mohammad Abu Bakr. Sampling statistics and associated methodology for determining nitrification rate coefficients for sugarcane fields. M.Sc. Thesis, Agronomy and Soil Science; August 1981.

2. AbuZeid, Mohammad, Osman. Root properties of sugarcane (Saccharum officinarum) in relation to nutrient uptake. Ph.D. Dissertation, Soil Science; 1969.

3. Adlan, Hassan Ali. Effect of pH, silicon and phosphorus treatments on growth and yield of papaya (Carica papaya L.). Ph.D. Dissertation, Soil Science; June 1969.

4. Agarwal, Anand Swaroop. Immobilization and mineralization of nitrogen in Hawaiian soils. Ph.D. Dissertation, Soil Science; 1967.

5. Ahmad, Faridah Hj. A geostatistical approach to the mapping of acid sulfate soils. M.Sc. Thesis, Agronomy and Soil Science; May 1985.

6. Ahmad, Nazir. Soil nitrogen mineralization as affected by drying, liming and sewage sludge addition. Ph.D. Dissertation, Agronomy and Soil Science; December 1980.

7. Ahmed, Mohammed Tahir. A study on the effect of chelates and chelating agents in releasing zinc and other micronutrients in Hawaiian soils. M.Sc. Thesis, Soil Science; 1969.

8. Ahmed, Saleem. Effects of adsorbed cations on the physical properties of soils under arid conditions. Ph.D. Soil Science; January 1965.

9. Akyeampong, Michael P. The effect of different strains of Rhizobium and levels of phosphorus on mungbean (Vigna radiata) and soybean (Glycine max). M.Sc. Thesis, Agronomy and Soil Science; August 1980.

10. Alcantara, Antonio J. Verification of simulated water use by sugarcane. Ph.D. Dissertation, Agronomy and Soil Science; December 1980.

11. Alcordo, Isabelo Suelo. Physical and mineralogical properties of drained paddies and of their reclaimed counterparts. M.Sc. Thesis, Soil Science; 1963.

12. Alexander, William P. The irrigation of sugar cane in Hawaii. M.Sc., Agriculture; May 1922.

13. Ali, Muhammad Yassin. Effect of phosphorus, silicon and zinc applications on the yield and mineral composition of sugarcane. M.Sc. Thesis, Agronomy and Soil Science; September 1986.

14. Aliusius, Djohan. Soil thermal properties and soil temperature predictions in the rhizosphere of bare soils. Ph.D. Dissertation, Agronomy and Soil Science; December 1987.

15. Alvarez de la Roche, Andres. Effect of shifting frequency on liveweight gain of grazing steers. M.Sc. Thesis, Agronomy and Soil Science; 1988.

16. Alvarez, Robustiano. Solution and spectroscopic studies of silicate adsorption onto gibbsite. Ph.D. Dissertation, Agronomy and Soil Science; 1975.

17. Anders, Merle M. Sugarcane growth and yield response to nitrogen, irrigation, and environment. Ph.D. Dissertation, Agronomy and Soil Science; 1988.

18. Aquino-Thun, Rosalinda. Vegetative growth, yield, and fruit quality of pineapple as influenced by moisture stress and potassium. Ph.D. Dissertation, Agronomy and Soil Science; 1986.

19. Aragon, Ernesto L. Inhibitory effects of substances from residues and extracts of staghorn fern (Dicranopteris linearis). M.Sc. Thesis, Agronomy and Soil Science; 1975.

20. Arain, Mohammad Saeed. Influence of phosphate fertilization on zinc adsorption by soils and the labile zinc pool. Ph.D. Dissertation, Agronomy and Soil Science; 1976.

21. Ardi. Interference between sweet corn (Zea mays L.) and purple nutsedge (Cyperus rotundus L.) at different irrigation levels. M.Sc. Thesis, Agronomy and Soil Science; August 1986.

22. Arifin, Rudi. Effects of soil-sewage sludge interactions on lettuce growth and evaluation of three heavy metal extractants. M.Sc. Thesis, Agronomy and Soil Science; 1986.

23. Aromose, Anthony. Effect of light intensity and photoperiod on pineapple seedling development. M.Sc. Thesis, Agronomy; 1970.

24. Asghar, Mohammad. Effects of sugarcane trash and pineapple residue incorporation on soil nitrogen status and plant characteristics. Ph.D. Dissertation, Agronomy and Soil Science; 1977.

25. Asghar, Mohammad. Organic matter decomposition, nitrate reduction and redox potential relationships in a Hawaiian Oxisol. M.Sc. Thesis, Agronomy and Soil Science; 1972.

26. Atkinson, Ian Athol Edward. Rates of ecosystem development on some Hawaiian lava flows. Ph.D. Dissertation, Soil Science; 1969.

27. Awemo, John W. Assessing mycorrhizal inoculum potential of soil and response of cowpea to inoculation on a Tropeptic Eutrustox. M.Sc. Thesis, Agronomy and Soil Science; August 1983.

28. Ayres, Arthur Smiley. Release of non-exchangeable potassium in Hawaiian sugar cane soils. Ph.D. Dissertation, Graduate Division; June 1949.

29. Ayres, Arthur, Smiley. Sorption of potassium and ammonium by soils as influenced by concentration and the degree of bases saturation. M.Sc. Thesis, Graduate Division; June 1941.

30. Azih, Anthony O. The effect of plant density and nitrogen fertilization on yield and mineral constituents of two maize varieties grown in Hawaii. M.Sc. Thesis, Agronomy and Soil Science; August 1978.

31. Aziz, Taufiqul. Use of vesicular-arbuscular mycorrhizal fungi for establishment of effectively nodulated legumes on a moderately weathered Oxisol subjected to simulated erosion. Ph.D. Dissertation, Agronomy and Soil Science; 1988.

32. Baclig, Ernesto V. Sugarcane growth response to soil P level and VA mycorrhizae. Ph.D. Dissertation, Agronomy and Soil Science; December 1987.

33. Balasubramanian, Vethaiya Thevar. Adsorption, denitrification, and movement of applied ammonium and nitrate in Hawaiian soils. Ph.D. Dissertation in Agronomy and Soil Science; May 1974.

34. Barnes, Edwin Alonzo III. The structural role of organic matter constituents in oxidic soils. M.Sc. Thesis, Agronomy and Soil Science; December 1978.

35. Barnes, Edwin Alonzo III. Utilization of the four electrode technique for assessment of field salinity status in irrigated sugarcane soils of Hawaii. Ph.D. Dissertation, Agronomy and Soil Science; May 1981.

36. Barrion, Melinda M. The interaction of Rhizobium with soil biological factors (in tropical soils) as modified by soil acidity and water potential. M.Sc. Thesis, Agronomy and Soil Science; August 1986.

37. Beckmann, Geoffery George. The genesis of certain Hawaiian Paleosols and their alteration following burial. Ph.D. Dissertation, Soil Science; 1963.

38. Bellows, Barbara Carol. Azolla: its decomposition and nitrogen availability to rice (Oryza sativa) under paddy soil conditions. M.Sc. Thesis, Agronomy and Soil Science; May 1981.

39. Blomberg, Norman Eugene. The carbon-nitrogen ratios in Hawaiian soils. M.Sc. thesis, Graduate Division; June 1958.

40. Boonduang, Ampan. Some studies on slowly available nitrogen sources in Hawaiian soils. M.Sc. Thesis, Agronomy and Soil Science; 1972.

41. Boyd, Charles, Curtis. The effect of sulfur, nitrogen, and phosphorus fertilization on the yield and chemical composition of kikuyugrass (Pennisetum clandestinum Hochst. ex Chiov.). M.Sc. Thesis, Soil Science; 1968.

X 42. Braide, Jonathan Oko. Analysis of plant nutrients in soil by ion exchange resin extraction and X-Ray Fluorescence Spectrometry. Ph.D. Dissertation, Agronomy and Soil Science; August 1977.

X 43. Braide, Jonathan Oko. The effect of soil physical parameters on the diffusion of phosphorus in Hawaiian soils. M.Sc. Thesis, Agronomy and Soil Science; 1971.

44. Briones, Angelina Mariano. Nature and distribution of organic nitrogen in tropical soil. Ph.D. Dissertation, Soil Science; 1969.

X 45. Briones, Aurelio Aguila. Aggregate stability in relation to some physical and chemical properties of drained and reclaimed paddies. M.Sc Thesis, Soil Science; 1963.

X 46. Briones, Aurelio Aguila. Physics of drained paddy soils. Ph.D. Dissertation, Soil Science; 1969.

47. Bromdep, Amara. Studies of nodulation of selected species of legumes in Hawaiian soils and photoperiod effects on flowering in Desmodium species. M.Sc. Thesis, Agronomy; 1966.

48. Bruce, Romeo C. A study of the relationship between soil and quantitative terrain factors. Ph.D. Dissertation, Agronomy and Soil Science; May 1971.

X 49. Cagauan, Bernardino Garcia, Jr. Soil anisotropy and its relation to aggregate stability. M.Sc. Thesis, Soil Science; 1963.

X 50. Cagauan, Bernardino Garcia, Jr. Solute dispersion in selected tropical soils. Ph.D. Dissertation, Soil Science; 1969.

51. Cassman, Kenneth G. The phosphorus nutrition of two grain legumes as affected by mode of nitrogen nutrition. Ph.D. Dissertation, Agronomy and Soil Science; May 1979.

52. Chakravorty, Ashok Kumar. Effect of moisture and biological control chemicals on nitrogen transformation in Hawaiian soils. M.Sc. Thesis, Soil Science; 1968.

53. Chan, Jenn Kwang. Chemical and morphological characterization of the noncrystalline fraction in the Hilo soil (Typic Hydrandepts). M.Sc. Thesis, Agronomy and Soil Science; 1972.

X 54. Chase, Robert G. A subsurface irrigated controlled traffic, no-tillage system. Ph.D. Dissertation, Agronomy and Soil Science; August 1982.

55. Chaudhary, Shiva Kumar. Grain and forage legume yields, with and without intercropping and the effect of Leucaena green leaf manuring on nitrogen economy of corn. Ph.D. Dissertation, Agronomy and Soil Science; 1984.

56. Chinene, Vernon R. N. Effect of nitrogen and phosphorus on extractible water by maize and simulating maize growth on a Tropeptic Eutrustox. Ph.D. Dissertation, Agronomy and Soil Science; December 1983.

57. Chinn, Edwin Yan Hoy. Soil profiles along Kipapa Gulch, Oahu, Hawaii, as modified by altitude and climate. M.Sc. Thesis (Soil Chemistry) Graduate Division; 1956.

58. Chong, She-Kong. Infiltration prediction based on in-situ measurements of soil-water properties. Ph.D. Dissertation, Agronomy and Soil Science; May 1979.

59. Chotimon, Adul. The properties and genesis of four soils in southwestern Kauai, Hawaii. M.Sc. Thesis, Soil Science; 1969.

60. Chow, Kuon-hon. Interspecific hybridization in the genus Desmodium. M.Sc. Thesis, Agronomy; 1968.

61. Chu, Ada Ellen Chang. Differential fixation of phosphate by the Hawaiian soils. M.Sc. Thesis, Graduate Division; June 1951.

62. Coats, John S. Effect of roots and tillage on soil erosion on a weathered Hawaiian soil with low erodibility. M.Sc. Thesis, Agronomy and Soil Science; May 1990.

63. Connelly, Paul Raymond. The effect of thermoperiod on the carbon dioxide uptake and compensation point of the pineapple plant, Ananas comosus (L.) Merr. Ph.D. Dissertation, Agronomy and Soil Science; 1972.

64. Connelly, Paul Raymond. The relative response of the pineapple plant Ananas comosus (L.) Merr. under varying nitrogen rates and carriers under different levels of light intensity. M.Sc. Thesis, Agronomy; August 1969.

65. Conway, Michael James. The effects of age, temperature and duration of exposure to temperature on susceptibility of pineapple to floral induction with ethephon. M.Sc. Thesis, Agronomy and Soil Science; 1977.

66. Dangler, Edgar W. Comparative rheological behavior of suspended clays with varying ionic composition. Ph.D. Dissertation, Agronomy and Soil Science; 1973.

67. Daniel, Joshua Nallathamby. Physiology and agronomic use of Azolla species in rice culture. Ph.D. Dissertation, Agronomy and Soil Science; May 1985.

68. Daud, Abdul R. B. Water transmission and quality in selected Hawaii soils. M.Sc. Thesis, Agronomy and Soil Science; 1976.

69. De Datta, Surajit Kumar. Availability of phosphorus and utilization of phosphate fertilizers in some great soil groups of Hawaii. Ph.D. Dissertation, Soil Science; January 1963.

70. de la Pena, Ramon Serrano. Effects of different levels of N, P, and K fertilization on the growth and yield of upland taro. Ph.D. Dissertation, Soil Science; 1967.

71. Del Rosario, Beatriz P. DRIS norms for maize (Zea mays L.) grown in a network of three tropical soil families. Ph.D. Dissertation, Agronomy and Soil Science; 1982.

72. Dias, Irwin Patrick Solomon. Effect of the use of lime and other soil amendments on amorphous and differentially crystallized subsoil of the Akaka series. Ph.D. Dissertation, Soil Science; 1965.

73. Djisbar, Alimin. Effect of brachytic-2 gene on yield and yield components of maize (Zea mays L.). M.Sc. Thesis, Agronomy and Soil Science; 1985.

74. Dollah, Abdul Aziz Bin. Genetic studies in Desmodium canum (Gmel.) Schintz and Thellung. M.Sc. Thesis, Agronomy and Soil Science; 1972.

75. Dowdle, Stephen Francis. Evaluating mycorrhizal inoculum levels in soil and quantifying their contribution to the phosphorus nutrition of cowpea. M.Sc. Thesis, Agronomy and Soil Science; August, 1980.

76. Dowdle, Stephen Francis. The ecology of Rhizobium japonicum in soybean-rice cropping systems in central China. Ph.D. Dissertation, Agronomy and Soil Science; 1985.

77. Dudley, Nicklos Sandor. Performance and management of fast-growing tropical trees in diverse Hawaiian environments. M.Sc. Thesis in Agronomy and Soil Science; May 1990.

78. Eastman, Clyde. The effect of phosphorus, potassium and calcium fertilization on peanut yield, quality and nutrient uptake. M.Sc. Thesis, Soil Science; 1963.

79. El-Tahir, Awad El-Hag M. Effect of soil pH, liming materials and phosphorus on growth and nutrient uptake of sugarcane. Ph.D. Dissertation, Agronomy and Soil Science; May 1976.

80. Elawad, Salman Hassan. Efficiency of different phosphate fertilizer sources in two Hawaiian soils with contrasting phosphate fixing tendencies. Ph.D. Dissertation, Agronomy and Soil Science; 1978.

81. Elder, Vincent Allen. Degradation of specifically labeled diuron in soil and availability of its residues to oats. Ph.D. Dissertation, Agronomy and Soil Science; 1978.

82. Englerth, Edward Jerome Jr. Nitrogen nutrition of the pineapple plant, Ananas comosus (L.) Merr., soil nitrogen status, and dynamics of the Reniform nematode population, Rotylenchulus reniformis Linford and Oliveira, in relation to the form of nitrogen fertilizer, soil acidity, and fumigation. Ph.D. Dissertation, Soil Science; December 1969.

83. Eriksen, Flemming Iskov. The effect of shading on morphology, yield and nitrogenase activity of grain legumes and tropical forage grasses and legumes. Ph.D. Dissertation, Agronomy and Soil Science; 1980.

84. Escalada, Rodolfo Gonzales. A study of the breeding behavior and morphological variation in kaimi clover (Desmodium canum (Gmel.) Schintz and Thellung). M.Sc. Thesis, Agronomy; 1969.

85. Escalada, Rodolfo Gonzales. Tillering and ratoon cropping of grain sorghum (Sorghum bicolor (Linn.) Moench). Ph.D. Dissertation, Agronomy and Soil Science; 1973.

86. Escano, Crisanto R. Comparative evaluation of some diagnostic techniques for determining the nutrient requirement of maize grown on Hydric Dystrandepts. Ph.D. Dissertation, Agronomy and Soil Science; 1980.

87. Evans, Dale Ordway. The effect of management of Crotalaria juncea green manure on the yield and nitrogen uptake of maize. M.Sc. Thesis, Agronomy and Soil Science; 1981.

88. Evensen, Carl Lovell Imaikalani. Alley cropping and green manuring for upland crop production in West Sumatra. Ph.D. Dissertation, Department of Agronomy and Soil Science; August 1989.

89. Evensen, Carl Lovell Imaikalani. Seasonal yield variation, green leaf manuring, and eradication of Leucaena leucocephala (Lam.) De Wit. M.Sc. Thesis, Agronomy and Soil Science; 1984.

90. Ezumah, Humphrey Chukunoyere. Effect of root temperature, nitrogen, and phosphorus nutrition on the growth of kikuyugrass (Pennisetum clandestinum Hochst. ex Chiov.), pangolagrass (Digitaria decumbens Stent.) and greenleaf desmodium (Desmodium intortum (Mill.) Urb.). M.Sc. Thesis, Agronomy; 1970.

91. Ezumah, Humphrey Chukunoyere. The growth and development of taro, Colocasia esculenta (L.) Schott, in relation to selected cultural management practices. Ph.D. Dissertation, Agronomy and Soil Science; 1972.

92. Fahrney, Keith S. Maize yields and soil erosional losses associated with conservation and conventional tillage practices on a Tropical Aridisol. M.Sc. Thesis, Agronomy and Soil Science; 1987.

93. Farah, Mohamad Osman. Amelioration of a saline-sodic soil with phosphatic gypsum and sulfur applied by two methods. M.Sc. Thesis, Agronomy and Soil Science; August 1984.

94. Fernandez, Nicanor C. The soils of the Molokai family. M.Sc. Thesis, Soil Science; 1963.

95. Fischer, Charles. Identification of refractory organic compounds from treated sewage effluent and their removal by soil. M.Sc. Thesis, Agronomy and Soil Science; 1977.

96. Fithian, Joel. The effect of site and sulfur variables on maize growth. M.Sc. Thesis, Agronomy and Soil Science; 1983.

97. Fleisch, Herve. Modeling pineapple inflorescence development. M.Sc. Thesis, Agronomy and Soil Science; 1986.

98. Fleisch, Herve. Modeling pineapple growth and inflorescence development. Ph.D. Dissertation, Agronomy and Soil Science; 1988.

99. Floresca, Emmanuel T. Weed ecology and economic importance of Emilia ianvanica (Burm.) Rob. and E. sonchifolia (L.) DC. Ph.D. Dissertation, Agronomy and Soil Science; 1975.

100. Fujimoto, Charles Kazuyuki. The behavior of manganese in the soil and the manganese cycle. M.Sc. Graduate Division; June 1947.

101. Furukawa, Michael Hitoshi. Metribuzin, nitrate and salt distribution under drip irrigation. M.Sc. Thesis, Agronomy and Soil Science; 1984.

102. Gabuin, Johnson Nadarikwu. Nutrient distribution in banana and its relationship to leaf spot disease. M.Sc. Thesis, Agronomy and Soil Science; 1969.

103. Gamido, Roger Bautista. Correlation of chemical tests for phosphorus with crop response to phosphorus fertilization in Hawaiian soils. M.Sc. Thesis, Soil Science; 1964.

104. Gangwar, Mahendra Singh. Aluminum sorption by plants as influenced by calcium and potassium. Ph.D.

Dissertation, Soil Science; 1967.

105. Gardiner Jr., Harold C. Genesis of a climosequence of soils in the Kohala basin. M.Sc. Thesis, Soil Science; 1967.

106. Garnier, Charles L. Residue effects on runoff and erosion under simulated rainfall from steeply sloping tropical soils. Ph.D. Dissertation, Agronomy and Soil Science; December, 1988.

107. Gavenda, Robert Thomas. Soil Genesis and Landscape Evolution in Central Oahu, Hawaii. Ph.D. Dissertation in Agronomy and Soil Science; May 1989.

108. Gazdar, Muhammad Nasir. Ionic activity relations in the flocculation saline and sodic soils. M.Sc. Thesis, Soil Science; June 1969.

109. George, Thomas. Growth and yield responses of Glycine max and Phaseolus vulgaris to mode on nitrogen nutrition and temperature changes with elevation. Ph.D. Dissertation, Agronomy and Soil Science; December 1988.

110. Gill, William Robert. Cation exchange properties of the Gray Hydromorphic Soils of the Hawaiian Islands. M.Sc. Thesis, Graduate Division; June 1949.

111. Glover, Nancy L. Collection, conservation and evaluation of Gliricidia sepium (Jacq.) Steud. germplasm. M.Sc. Thesis, Agronomy and Soil Science; 1986.

112. Golingai, Sylverius. Effect of nitrogen and harvest date on growth and yield of ratooned grain sorghum (Sorghum bicolor (L.) Moench). M.Sc. Thesis, Agronomy and Soil Science; 1972.

113. Gonzales, Onesimo Medina. Solubility and availability to sugarcane of two silicate materials. M.Sc. Thesis, Agronomy and Soil Science; August 1981.

114. Goswami, Kishore Puri. Fate of ametryne in soil, nutrient solution-sugarcane and soil-sugarcane systems. Ph.D. Dissertation, Agronomy and Soil Science; 1972.

115. Gowland, Patricia Ann. Assessment of extraction methodology for determining salinity and sodicity in Hawaiian soils. M.Sc. Thesis, Agronomy and Soil Science; 1982.

116. Gribble, Grant William. Total chemical analysis of rocks, soils, and clay minerals by X-ray fluorescence quantometry. M.Sc. Thesis, Agronomy and Soil Science; 1974.

117. Guevarra, Anaclato L. Management of Leucaena leucocephala (Lam.) de Wit for maximum yield and nitrogen contribution to intercropped corn. Ph.D. Dissertation, Agronomy and Soil Science; May 1976.

118. Hagihara, Harold Haruo. Potassium fixation in Hawaiian soils. M. Sc. Thesis, Graduate Division (Soil Science); June 1953.

119. Hammond, Lawrence Leroy. The characterization and classification of the soils of Christmas Island. M.Sc. Thesis, Soil Science; 1969.

120. Hansen, James William. Influence of decomposing organic matter on aluminum chemistry and phytotoxicity. M.Sc. Thesis, Agronomy and Soil Science; May 1989.

X 121. Harada, Walter Takashi. Digital simulation of water infiltration into Oxisols. M.Sc. Thesis, Soil Science; December 1970.

122. Harris, David J. Evaluation of phosphorus fertilizer materials on two benchmark soils of the tropics. Ph.D. Dissertation, Agronomy and Soil Science; December, 1983.

123. Hashimoto, Isao. Differential dissolution analysis of clays and its application to Hawaiian soils. Ph.D. Dissertation; 1961.

124. Hassan, Tjetje S. The properties and genesis of soils derived from Pahala ash in Kau District, Hawaii. M.Sc. Thesis, Soil Science; 1969.

125. Hirunburana, Niwat. Boron status of Hawaiian soils and inter-relationship of boron with manganese in plant nutrition. M.Sc. Thesis, Agronomy and Soil Science; 1971.

126. Hirunburana, Niwat. Inorganic nutrition of papaya (Carica papaya L.) and macadamia (Macadamia integrifolia. F. Muell). Ph.D. Dissertation, Agronomy and Soil Science; May 1974.

127. Ho, Merry Cris. Heavy metal adsorption by an Oxisol and plant uptake of metals from sewage sludge-amended soil. M.Sc. Thesis, Agronomy and Soil Science; August 1981.

128. Houng, Kun-Huang. A study on the soils containing amorphous materials in the island of Hawaii. Ph.D. Dissertation, Soil Science; 1964.

129. Hsia, Yu-Jen. The potassium requirement of three legume species and their yields. M.Sc. Thesis, Graduate School (Soil Science); August 1955.

130. Huang, Ruey-Shyang. Influence of vesicular-arbuscular mycorrhiza on Leucaena leucocephala growth, water relations and nutrient acquisition. Ph.D. Dissertation, Agronomy and Soil Science; May 1987.

131. Huang, Yoong Lee. A study of the status of molybdenum in the Hawaiian soils and the reaction of vegetation to the application of aluminum. M.Sc. Graduate School; August 1955.

132. Hudnall, Wayne H. Genesis and morphology of secondary products in selected volcanic ash soils from the Island of Hawaii. Ph.D. Dissertation, Agronomy and Soil Science; December 1977.

133. Hurdus, Allen R. The establishment and early management of grain sorghum (Sorghum bicolor (Linn.) Moench). M.Sc. Thesis, Agronomy and Soil Science; 1975.

134. Hussain, Mohammad Sultan. A genetic study of the Gray Hydromorphic soils of the Hawaiian Islands. Ph.D. Dissertation, Soil Science; 1967.

135. Ibrahim, Abdul Aziz bin. Effect of N and Si on growth and yield of rice. M.Sc. Thesis, Agronomy; 1968.

136. Ibrahim, Muhammad. Effects of acidity related problems (low calcium, low molybdenum and high manganese) on the performance of tropical pasture-forage legumes. Ph.D. Dissertation, Agronomy and Soil Science; 1985.

137. Ikawa, Haruyoshi. The role of soluble silicate on the fixation and release of phosphorus of tropical soils. M.Sc. Thesis, Graduate Division; 1956.

138. Ingamells, James Lee. Agronomy as a science: A new course for beginning Agronomy majors. M.Sc. Thesis, Agronomy and Soil Science; 1976.

139. Ingamells, James Lee. The effects of pineapple "trash" on N mineralization and early growth of pineapple. Ph.D. Dissertation, Agronomy and Soil Science; May 1981.

140. Ishizaki, Stanley M. Soil-Plant-animal relationships in molybdenum- and copper-fertilized forages. Ph.D. Dissertation, Agronomy and Soil Science; 1987.

141. Jan-orn, Jinda. Studies of esterase variation, pollen abortion, and chromosome number in the Setaria sphacelata complex. M.Sc. Thesis, Agronomy; 1969.

142. Jang, Lin Li-Ling. Calibration and validation of a rice simulation model. Ph.D. Dissertation, Agronomy and Soil Science; December 1987.

143. Jellinger, Moanikeala. Methods of detection and analysis of slope instability, southeast Oahu, Hawaii. Ph.D. Dissertation, Agronomy and Soil Science; August 1977.

144. Juang, Tzo-chuan. Genesis of secondary micas from basalts and related rocks in the Hawaiian Islands. M.Sc. Thesis, Soil Science; 1965.

145. Juang, Tzo-chuan. Soil-plant relations in the mineral nutrition of sugar cane with special reference to zinc and related elements. Ph.D. Dissertation, Agronomy and Soil Science; December 1971.

146. Kadzimin, Saleh Bin. Effects of water stress on Pineapple (Ananas comosus (L.) Merr.). M.Sc. Thesis, Agronomy and Soil Science; 1975.

147. Kagabo, Wilson Emaanzi. Nitrogen fixation in field- grown legumes measured by the 15N isotope dilution and the difference methods. M.Sc. Thesis, Agronomy and Soil Science; 1986.

148. Kagbo, Robert Ben. Management studies relating to mechanization of taro (Colocasia esculenta (L.) Schott) culture. Ph.D. Dissertation, Agronomy and Soil Science; 1976.

149. Kaiulo, James Vele. The effect of shade on carbon assimilation, plant growth, and nitrogenase activity of winged bean (Psophocarpus tetragonolobus (L.) DC. M.Sc. Thesis, Agronomy and Soil Science; May 1983.

150. Kanehiro, Yoshinori. Movement and availability of nitrogen in soils. M.Sc. Thesis, Graduate Division; June 1948.

151. Kanehiro, Yoshinori. Status and availability of zinc in Hawaiian soils. Ph.D. Dissertation, Soil Science; 1964.

152. Kapteyn, Robert Jan. The molybdenum content of some Hawaiian soil families. M.Sc. Thesis, Soil Science; June 1963.

153. Karmatias. Genesis, classification, and land use potential of some Ultisols of Maui, Hawaii. M.Sc. Thesis, Agronomy and Soil Science; 1985.

154. Kawano, Yoshihiko. The relationship of soil composition to rheological properties and the compactibility of some Hawaiian soils. M.Sc. Thesis, Graduate School; June 1957.

155. Keng, Johnny Ching-Win. Surface chemistry of some constant potential soil colloids. M.Sc. Thesis, Agronomy and Soil Science; 1974.

156. Khalid, Rashid Ahmad. Residual effects of calcium silicate on the movement and availability of nutrients in tropical soils. Ph.D. Dissertation, Agronomy and Soil Science; May 1974.

157. Khan, Muhammad Akram. Computer simulation of soil processes relevant to irrigation and fertilizer

management. Ph.D. Dissertation, Agronomy and Soil Science; 1979.

158. Kim, Sun Kwan. Sorption-desorption of the nematocide fenamiphos sulfoxide in relation to residence time in soil. Ph.D. Dissertation, Agronomy and Soil Science; December 1989.

159. Kimura, Hubert S. A study of Lahaina silty clay soils forming from different parent materials. M.Sc. Thesis, Soil Science; 1966.

160. King, Donald L. Phosphorus fixation in soils containing amorphous and crystalline aluminum and iron compounds. M.Sc. Thesis, Soil Science; July, 1961.

161. Kleinjans, John Klaaren. Soil P buffer capacity effects on Leucaena leucocephala response to VA Mycorrhizae. M.Sc. Thesis, Agronomy and Soil Science; December 1989.

162. Kourouma, Laye. Empirical models for predicting soil- climate and related pasture grass response in Hawaii. Ph.D. Dissertation, Agronomy and Soil Science; May 1986.

163. Kourouma, Laye. Suelos, Agrohabitats y funcion de produccion de caña de azucar en el Distrito de Actopan, Veracruz. Tesis Maestro en Ciencias en Suelos; 1979.

164. Kunishi, Harry Mikio. Mineral analyses of Hawaiian surface and seepage waters. M.Sc. Thesis, Graduate Division; August 1956.

165. Kurmarohita, Kunchit. Molybdenum content of pasture species and some factors that affect it. M.Sc. Thesis, Soil Science; 1964.

166. Lai, Sung-ho. Some physico-chemical properties of amorphous mineral colloids. M.Sc. Thesis, Soil Science; 1967.

167. Lee, Chee Chow. Sorption and degradation parameters for modeling nematocide fate in soil. Ph.D. Dissertation, Agronomy and Soil Science; May 1987.

168. Lee, Myoung Hoon. Genetic and environmental effects on silage productivity of corn (Zea mays L.). Ph.D. Dissertation, Agronomy and Soil Science; May 1983.

169. Legowo, Eko. Estimation of water extractability and hydraulic conductivity in tropical Mollisols, Ultisols, and Andosols. Ph.D. Dissertation, Agronomy and Soil Science; May 1987.

170. Liang, Sheng Lewis. The effects of slope aspect on the early growth of sugarcane in Hawaii under mid-winter conditions. M.Sc. Thesis, Agronomy and Soil Science; August 1976.

171. Lim, Howard Soo Kil. Effects of dehydration on physico-chemical properties of selected volcanic ash soils from Hawaii. M.Sc. Thesis, Agronomy and Soil Science; August 1976.

172. Lim, Howard Soo Kil. Effects of drying methods, extent, and inorganic cementing constituents on the structural properties of Typic Hydrandepts of Hawaii's forest land. Ph.D. Dissertation, Agronomy and Soil Science; December 1979.

173. Lin, Mu Lien. Phosphorus nutrition of banana as influenced by mycorrhizae and fertilizers. Ph.D. Dissertation, Agronomy and Soil Science; May 1987.

174. Liu, Po-ling. The characterization of a phosphate reaction product in a Hydrol Humic Latosol in Hawaii.

M.Sc. Thesis, Soil Science; 1965.

175. Lo, Kwong Fai Andrew. Estimation of rainfall erosivity in Hawaii. Ph.D. Dissertation, Agronomy and Soil Science; May 1982.

176. Loganathan, Paripurnananda. The properties and genesis of four middle altitude Dystrandepts from Mauna Kea, Hawaii. M.Sc. Thesis, Soil Science; June 1967.

177. Logrono, Manuel L. Genetics of maturity and photoperiod sensitivity in maize. Ph.D. Dissertation, Agronomy and Soil Science; May 1990.

178. Long, Pei Phong. Callus and organized growth in the Gramineae. M.Sc. Thesis, Agronomy; 1969.

179. Lower, Robert A. Yield of 'Williams' hybrid banana in relation to fertility, plant size and climate. M.Sc. Thesis, Agronomy and Soil Science; 1982.

180. Lumpkin, Thomas Adam. Taxonomy, physiology, and agronomic potential of Azolla spp. Ph.D. Dissertation, Agronomy and Soil Science; May 1983.

181. Lyman, Clarence. On the determination and concentration of zinc in pineapple plants and soils. M.Sc. Thesis, Graduate Division; 1941.

182. MacDicken, Kenneth Glenn. Studies on the early growth rates of selected nitrogen-fixing trees. M.Sc. Thesis, Agronomy and Soil Science; May 1983.

183. Mahilum, Benjamin C. Effects of silicates and carbonates on the status of mineral nutrients in a Hydrol Humic Latosol. M.Sc. Thesis, Soil Science; 1965.

184. Malik, Hameed Ullah. Characterization and mineralogical interpretation of shrink-swell behavior of Hawaiian Kaolinitic Vertisols. Ph.D. Dissertation, Agronomy and Soil Science; August 1990.

185. Manjunath, Aswathanarayana Rao. Host related determinants of vesicular-arbuscular mycorrhizal dependency in selected species of Leucaena and Sesbania. Ph.D. Dissertation, Agronomy and Soil Science; December 1989.

186. Manrique, Luis A. Development of a land suitability classification for potatoes (Solanum tuberosum). Ph.D. Dissertation, Agronomy and Soil Science; May 1982.

187. Manuelpillai, R. George. Influence of silicon and phosphorus and their interaction on yield and chemical composition of plants. M.Sc. Thesis, Soil Science; August 1967.

188. Mapa, Ranjith Bandara. Temporal variability of soil hydraulic properties subsequent to tillage. Ph.D. Dissertation, Agronomy and Soil Science; August 1984.

189. Marzola, Deo Lauro. Effect of soil pH, phosphorus and zinc fertilization on corn and sugarcane and an evaluation of extractant for available soil zinc. M.Sc. Thesis, Agronomy and Soil Science; August 1978.

190. Marzola, Deo Lauro. Effects of stillage application on cane and sugar yields and juice quality. Ph.D. Dissertation, Agronomy and Soil Science; December 1984.

191. Matella, Lipalesa Rose. Genesis, classification, and land use potential of some Mollisols of Maui, Hawaii. M.Sc. Thesis, Agronomy and Soil Science; December 1986.

192. Matsusaka, Yoshito. Dehydration curves and differential thermal curves of clays from Hawaiian Soils. M.Sc. Thesis, Graduate Division; June 1952.

193. May, Sheila N. Ecological studies on lentil rhizobia: competition and persistence in some tropical soils. M.Sc. Thesis, Department of Microbiology; December 1979.

194. Mekaru, Toshio. Anion adsorption in Hawaiian soils. M.Sc. Thesis, Soil Science; 1969.

195. Memon, Kazi Suleman. The phosphorus requirements of cereal crops with emphasis on the tropics. Ph.D. Dissertation, Agronomy and Soil Science; May 1982.

196. Mendoza, Jr. Saturnino P. Effects of lime and phosphorus in reducing the toxicity of aluminum to (Coffea arabica) seedlings grown on two Hawaiian soils. M.Sc. Thesis, Soil Science; June 1963.

197. Midkiff, John Howard. Fertilizing sugar cane in Hawaii. M.Sc. Thesis, Agriculture; June 1921.

198. Mikami, David T. Native fixed ammonium and fixation of applied ammonium in Hawaiian soils. M.Sc. Thesis, Soil Science; 1966.

199. Miller, Mark E. Hydrogeologic characteristics of Central Oahu subsoil and saprolite: Implications for solute transport. M.Sc. Thesis, Geology and Geophysics; 1987.

200. Mills-Packo, Pamela Ann. The application of soft systems methodology for improving the agrotechnology process responding to tree crop farming concerns in Kona, Hawaii. Ph.D. Dissertation, Agronomy and Soil Science; August 1989.

201. Misra, Maheshi K. Influence of liming and potassium fertilization on the nutrition of sugarcane and Desmodium species. Ph.D. Dissertation, Soil Science; December 1970.

202. Miyasaka, Susan Chie. Calcium nutrition of taro (Colocasia esculenta (L.) Schott) and its possible relationship to guava seed disease. M.Sc. Thesis, Agronomy and Soil Science; December 1979.

203. Mohamad, Ahmad El Fadil. The influence of mill water on the quality of sugarcane juice. M.Sc. Thesis, Agronomy; September 1966.

204. Montagne, Hebel Wendelina. Crust development in a Titaniferous Ferruginous Latosol on Kauai, Hawaii. M.Sc. Thesis, Soil Science; December 1970.

205. Monteith, Nigel Hugh. The comparative effects of calcium carbonate and calcium silicate on the yield of sudangrass grown in a Ferruginous Latosol and a Hydrol Humic Latosol. M.Sc, Thesis, Graduate Division; June 1961.

206. Monteith, Nigel Hugh. The relationship between soil classes, soil properties, plant growth and soil management treatments in the Goodi Mill area of Queensland. Ph.D. Dissertation, Soil Science; 1967.

207. Moody, Keith. The effect of various nutrients on the yield and nutritional level of sudan grass grown on an Aluminous Ferruginous Latosol. M.Sc. Thesis, Soil Science; June 1966.

208. Motooka, Philip Susumu. The use of 0.1 N HCl-extractable zinc in assessing available and fixed zinc in Hawaiian soils. M.Sc. Thesis, Soil Science; 1962.

209. Mukhtar, Muhammad. Desorption of adsorbed ametryn and diuron from soils and soil components in relation to rates, mechanisms, and energy of adsorption reactions. Ph.D. Dissertation, Agronomy and Soil Science; 1976.

210. Nakamura, Martha Tsuruye. The distribution of Chromium in the Latosols of the Hawaiian Islands. M.Sc. Thesis, Graduate Division; June 1957.

211. Nangju, Dimyati. Seed pelleting as an approach to herbicide selectivity in direct seeded rice. Ph.D. Dissertation, Agronomy and Soil Science; 1972.

212. Ndiaye, Jean Pierre. Effect of long-term phosphate fertilization on cation exchange (CEC) and cation movement in variable charge-soils. M.Sc. Thesis, Agronomy and Soil Science; May 1983.

213. Ndiaye, Jean Pierre. Influence of spatial variability of soil potassium and nonuniformity of fertilizer application on crop response. Ph.D. Dissertation, Agronomy and Soil Science; December 1986.

214. Nicholls, Douglas F. The distribution and movement of tropical pasture and seed species in relation to environment. Ph.D. Dissertation, Agronomy and Soil Science; 1972.

215. Nishina, Melvin Sanji. The composition of Mekong River silty and its possible role as a source of plant nutrient in the delta. M.Sc. Thesis, Agronomy and Soil Science; 1974.

216. Nyemba, Ronnie Chilele. The effect of Rhizobium strain, phosphorus applied, and inoculation rate on the nodulation and yield of soybean (Glycine max (L.) Merr. cv. 'Davis'). M.Sc. Thesis, Agronomy and Soil Science; December, 1986.

217. Obien, Santiago Rigonan. Degradation of atrazine and related triazines in Hawaiian soils. Ph.D. Dissertation, Soil Science; 1970.

218. Obien, Santiago Rigonan. The effects of soil factors on the phytotoxicity of neburon on oats (Avena sativa L.). M.Sc. Thesis, Agronomy; June 1963.

219. Oglesby, Karen Allison. Nitrogen mineralization of seven multipurpose tree green manures: rates, patterns and residual effects on soil N mineralization. M.Sc. Thesis, Agronomy and Soil Science; May 1990.

220. Oldeman, Leonard Rudolf. Analysis of sugarcane production in relation to climate, soil and management. Ph.D. Dissertation, Agronomy and Soil Science; 1971.

221. Olende, Cornelius Okiniyi. The effect of three growth regulators on the early growth and development of the sugarcane cultivar H62-4671. M.Sc. Thesis, Agronomy and Soil Science; August 1980.

222. Oo, Tha Tun. Cation balance in corn in relation to cations in the soil. M.Sc. Thesis, Soil Science; 1965.

223. Osaki, Arthur Yoshinori. Alfalfa varietal selection for Hawaii. M.Sc. Thesis, Agronomy and Soil Science; 1983.

224. Oshiro, Kishin. The properties and genesis of a sequence of soils on Kohala Mountain, Hawaii. M.Sc. Thesis, Soil Science; 1969.

225. Ouattara, Abdramane. Effect of rate of ethephon and carrier on inflorescence initiation in 'smooth cayenne' pineapple (Ananas comosus (L.) Merr). M.Sc. Thesis, Agronomy and Soil Science; May 1982.

226. Oya, Jean Chiyoku. A survey of non-symbiotic nitrogen fixation in Hawaiian pasture lands. M.Sc. Thesis,

Agronomy and Soil Science; 1975.

227. Oya, Kazuhiro. Response and nutrient uptake of peanut on Hawaiian Latosols treated with potassium and calcium. M.Sc. Thesis, Soil Science; 1964.

228. Pan, Fuh Jiunn. Systematics and genetics of the Leucaena diversifolia (Schlecht.) Benth. complex. Ph.D. Dissertation, Agronomy and Soil Science; May 1985.

229. Pandey, Sheo Ji. Prediction and comparison of properties of Hawaiian and Indian Red Earths using automatic data processing techniques. Ph.D. Dissertation, Soil Science; 1969.

230. Park, Soon Jai. Inheritance of flower color in Desmodium sandwicense E. Mey. M.Sc. Thesis, Agronomy; 1967.

231. Parra Duque, Alvaro Jose. Evaluating and mapping the fertility of soils of the Island of Maui. M.Sc. Thesis, Agronomy and Soil Science; 1983.

232. Parra Duque, Alvaro Jose. Potassium release from tropical soils in relation to their chemistry and mineralogy. Ph.D. Dissertation, Agronomy and Soil Science; August 1988.

233. Pecson, Richard D. Coppice management of Leucaena leucocephala (Lam.) DeWit. M.Sc. Thesis, Agronomy and Soil Science; August 1985.

234. Pellek, Richard. A study of plant species and soils in different vegetation zones in an Indonesian moist forest. Ph.D. Dissertation, Agronomy and Soil Science; December 1977.

235. Periaswamy, Sirapalli Periyannan. Agricultural potential of forested lava lands (Tropofolists). M.Sc. Thesis, Agronomy and Soil Science; May 1973.

236. Periaswamy, Siripalli Periyannan. Humults of Windward Oahu, Hawaii, and the potential ratings of these soils for selected uses. Ph.D. Dissertation, Soil Science; May 1976.

237. Pescador, Pedro, Jr. Yield response to zinc and the assessment of three extracting solutions for their estimation of available zinc in Hawaiian soils. M.Sc. Thesis, Soil Science; 1963.

238. Pinchin, Janice E. Effect of inoculation with different species of Vesicular Arbuscular Mycorrhizae on the early growth, development, and mineral nutrition of sugarcane. M.Sc. Thesis, Microbiology; August 1986.

239. Plucknett, Donald Lovelle. Plant relationships in the bauxitic soils of Kauai. Ph.D. Dissertation, Soil Science; 1961.

240. Pongsakul, Pitchet. Effects of molybdenum and interacting elements on the performance of tropical pasture-forage legumes. Ph.D. Dissertation, Agronomy and Soil Science; 1984.

241. Prasomsook, Suwit. Banana yields in relation to nitrogen and potassium composition of leaves. M.Sc. Thesis, Agronomy and Soil Science; 1973.

242. Pulam, Taweesak. Genetic and agronomic studies of efficiency in phosphate utilization by corn (Zea mays L.). Ph.D. Dissertation, Agronomy and Soil Science; May 1978.

243. Puri, Krishan Dev. Sampling variability in, and relevance of, cane maturity indices. M.Sc. Thesis, Soil Science; 1969.

244. Pyon, Jong Yeong. Studies on the biology of sourgrass (Trichachne insularis (L.) Nees) and of its competition with buffelgrass (Cenchrus ciliaris L.) and guineagrass (Panicum maximum Jacq.). Ph.D. Dissertation, Agronomy and Soil Science; 1975.

245. Quintana, Romeo U. The effect of planting date, nitrogen level and plant density on soy bean (Glycine max (Linn.) Merr.) seed yield. M.Sc. Thesis, Agronomy; 1966.

246. Qureshi, Ata Hussain. Diagnosis of nutritional disorders in Eucalyptus saligna seedlings and their response to fertilization in forest soils. Ph.D. Dissertation, Agronomy and Soil Science; May 1978.

247. Rahman, Ausafur. Interrelationships involving sensitivity thixotropy and their relationship with electrokinetic phenomena in some Hawaiian Soils. Ph.D. Dissertation, Geology and Geophysics (Hydrology); 1974.

248. Ramawas, Siti Zainab. The effect of selfing on wild sugarcane (Saccharum spontaneum) clones. M.Sc. Thesis, Agronomy and Soil Science; August 1983.

249. Rana, Sarit Kumar. Effects of dehydration and heavy liming on plant nutrition in the amorphous and crystalline tropical soils of Hawaii. Ph.D. Dissertation, Soil Science; June 1964.

250. Rao, Palakurthi S. C. Pore-geometry effects on solute dispersion in aggregated soils and evaluation of a predictive model. Ph.D. Dissertation, Agronomy and Soil Science; 1974.

251. Rashid, Abdul. Mapping zinc fertility of soils using indicator plants and soil analyses. Ph.D. Dissertation, Agronomy and Soil Science; August 1986.

252. Ravoof, Azeez Abdul. Effects of root temperatures and nitrogen carriers on nutrient uptake, growth and composition of pineapple plants, Ananas comosus (L.) Merr. Ph.D. Dissertation, Agronomy and Soil Science; 1973.

253. Raymondo, Martin Eusebio. The properties of the Black Earths of Hawaii. Ph.D. Dissertation, Soil Science; June 1965.

254. Raynor, William Charles. Structure, production, and seasonality in an indigenous Pacific Island agroforestry system: A case example on Pohnpei Island, F.S.M. M.Sc. Thesis, Agronomy and Soil Science; August 1989.

255. Recel, Modesto Raganit. Reclassification of Andepts of the State of Hawaii in the proposed order Andisols. M.Sc. Thesis, Agronomy and Soil Science; December 1980.

256. Recel, Modesto Raganit. Revision of Soil Taxonomy in the classification of low activity clay soils. Ph.D. Dissertation, Agronomy and Soil Science; December 1983.

257. Reddy, Ganta Gopal. Influence of associated anion on the effects of calcium on nutrient uptake by sudan grass on two tropical soils. Ph.D. Dissertation, Soil Science; 1964.

258. Redman, Francis H. Potassium availability in soils from the semi-arid areas of Oahu. M.Sc. Thesis, Graduate Division (Agronomy); 1958.

259. Rixon, Alan James. Effects of heavy applications of lime to soils derived from volcanic ash on the humid Hilo and Hamakua coasts. Ph.D. Dissertation, Graduate division (Soil Science); January 1962.

260. Robertson, John Berry Jr. The improvement of the physical and chemical properties of the Dark Magnesium Clays of the Hawaiian Islands. M.Sc. Thesis, Graduate Division; June 1951.

261. Rojas Gomez, Eybar Jesus. The use of olivine for the correction of magnesium deficiency in sugarcane. M.Sc. Thesis, Soil Science; 1966.

262. Rosenau, Andrew Jack. The residual effects of silicon, phosphorus and soil pH on yield and nutrient uptake of a ratoon sugarcane crop. M.Sc. Thesis, Soil Science; 1969.

263. Roy, Animesh Chandra. Phosphorus-silicon interactions in soils and plants. Ph.D. Dissertation, Soil Science; 1969.

264. Saing, Soe. Clarification of the nature of the kaolin minerals in Hawaiian soils. M.Sc. Thesis, Soil Science; June 1964.

265. Sangtian, Cherm. The nature of argillic horizon in Hawaiian Ultisols. M.Sc. Thesis, Soil Science; 1969.

266. Santo, Lance T. Soil water hysteresis in the inter-aggregate voids of two Hawaiian Oxisols. M.Sc. Thesis, Agronomy and Soil Science; 1974.

267. Santoso, Djoko. Performance of maize varieties in three tropical soil families and their response to N and P fertilization. M.Sc. Thesis, Agronomy and Soil Science; May 1981.

268. Sato, Harry H. Interpretation of index properties of the Unified Classification System for Hawaiian Soils. M.Sc. Thesis, Agronomy and Soil Science; May 1971.

269. Schroth, Charles Lorenz. Analysis and prediction of the properties of Western Samoa soils. Ph.D. Dissertation, Soil Science; May 1970.

270. Schultz, Janet M. Erosional relations in a short-rotation Eucalyptus plantation on a Typic Hydrandept. M.Sc. Thesis, Agronomy and Soil Science; December 1988.

271. Segovia Rojas, Antonio J. Effects of pH, P, and irrigation frequency on the yields and mineral composition of sugarcane grown under saline conditions. Ph.D. Dissertation, Agronomy and Soil Science; December 1979.

272. Seng, Tee. Effects of calcium and pH status on subsoil root development of legumes in an aluminum rich soil. M.Sc. Thesis, Agronomy; December 1970.

273. Sharma, Munna Lai. Influence of soil structure on water retention, water movement, and thermodynamic properties of adsorbed water. Ph.D. Dissertation, Soil Science; September 1966.

274. Sherman, G. Donald. Occurrence and distribution of dolomite in the subsoils of the Red River Valley. M.Sc. Thesis; 1937.

275. Shimabukuro, Zenyu. The relationship of potassium and magnesium for sudangrass production in selected Hawaiian soils. M.Sc. Thesis, Soil Science; 1962.

276. Shin, Han Poong. Estimates of general and specific combining abilities for several agronomic characters in sweet corn (Zea mays L.). M.Sc. Thesis, Agronomy; May 1970.

277. Shin, Han Poong. Gene action in the inheritance of agronomic traits in intervarietal diallel crosses and relative importance of gene effects for quantitative characters in Zea mays L. Ph.D. Dissertation, Agronomy and Soil Science; August 1972.

278. Shinshiro, Larry Kenji. The effect of various N rates and legume cover crops on maize yields and erosion.

M.Sc. Thesis, Agronomy and Soil Science; December 1981.

279. Shirzai, Ghulam A. Salinity status of some selected Hawaiian soils. M.Sc. Thesis, Soil Science; 1965.

280. Silva, Camillus Gregory. The classification problems of the Naiwa soil family. M.Sc. Thesis, Soil Science; 1966.

281. Silva, James Anthony. Yield response of sugar cane as a function of soil and supplemental levels of phosphorus and potassium, and its economic evaluation. M.Sc. Thesis, Graduate Division (Soil Science); February 1959.

282. Sinanuwong, Somsri. Cation exchange equilibria in irrigated tropical soils. Ph.D. Dissertation, Agronomy and Soil Science; 1972.

283. Singh, Budh Ram. Studies on nitrogen transformation and nitrate adsorption in soils. Ph.D. Dissertation, Soil Science; 1968.

284. Singh, Upendra. A crop growth model for predicting corn (Zea mays L.) performance in the tropics. Ph.D. Dissertation, Agronomy and Soil Science; May 1985.

285. Singleton, Paul W. The effect of salinity on Rhizobium survival, nodule function and nodule formation in the soybean-Rhizobium japonicum symbiosis. Ph.D. Dissertation, Agronomy and Soil Science; August 1982.

286. Singleton, Paul W. The symbiotic efficiency of some peanut cultivars and their interaction with strains of Rhizobium spp. M.Sc. Thesis, Agronomy and Soil Science; May 1979.

287. Skolmen, Roger, G. Clonal propagation of Acacia koa by tissue culture and conventional methods. Ph.D. Dissertation, Agronomy and Soil Science; December 1977.

288. Soekardi, M. Soil interpretation for non-agricultural and agricultural uses in the soils of the Benchmark Soils Project. Ph.D. Dissertation, Agronomy and Soil Science; May 1985.

289. Somphone, Sombath. Phosphorus solubility in paddy soils in relation to rice and Azolla yields. M.Sc. Thesis, Agronomy and Soil Science; December 1980.

290. Sorensson, Charles T. Interspecific hybridization in Leucaena Bentham. M.Sc. Thesis, Agronomy and Soil Science; December 1987.

291. Soundararajan, S. S. Sorbed and solution phosphorus and their relationship to crop response. Ph.D. Dissertation, Agronomy and Soil Science; May 1971.

292. South, William Tovey. The effects of method of propagation, age of transplanting, and pre-transplanting treatments on growth and N2 fixation of Leucaena leucocephala (Lam.) De Wit. M.Sc. Thesis, Agronomy and Soil Science; December 1983.

293. Stoop, Willem Adriaan. Interaction between phosphate adsorption and cation adsorption by soil and implications for plant nutrition. Ph.D. Dissertation, Soil Science; 1974.

294. Suehisa, Robert H. Effects of silicates on phosphorus availability to sudangrass grown on Hawaiian soils. M.Sc. Thesis, Soil Science; June 1961.

295. Syed, Muhammad Mehdi. Effects of saline water irrigation on the early growth and chemical composition of sugarcane (Saccharum officinarum). M.Sc. Thesis, Soil Science; June 1969.

296. Syed, Muhammed Mehdi. Phytotoxic compounds from Carica papaya L. and their fate in soil. Ph.D. Dissertation, Agronomy and Soil Science; May 1975.

297. Syed-Fadzil, Syed-Farooq Bin. Ion retention and movement in soils with variable charge colloids. M.Sc. Thesis, Agronomy and Soil Science; 1972.

298. Taal, Saihou O. M. Factors affecting soil molybdenum availability and molybdenum fertilization of tropical pasture legumes. M.Sc. Thesis, Agronomy and Soil Science; December 1979.

299. Talballa, Hassan Ali. Some genetic and developmental studies in the species Sclerostachya fusca and Narenga porphyrocoma and their hybrids. M.Sc. Thesis, Agronomy; 1968.

300. Tama Kato. Charge, Colloidal, and Structural Stability Interrelationships for Selected Hawaii Soils. M.Sc. Thesis, Agronomy and Soil Science; 1975.

301. Tamimi, Yusuf Nimr. Ammonium fixation in Hawaiian soils. Ph.D. Dissertation, Soil Science; January 1964.

302. Tamura, Tsuneo. Latosols: Mineral allocation and content. Ph.D. Dissertation; 1952.

303. Tamura, Tsuneo. Mineralogical composition of a soil profile from the Naiwa family of the Ferruginous Humic Latosol group. M.Sc. Thesis; 1951.

304. Tanada, Takuma. Utilization of nitrates by the coffee plant. M.Sc. Thesis, Graduate Division; June 1944.

305. Tengah, Abdullah Bin Che. Aggregate and colloidal stability characteristics in irrigable tropical soils. M.Sc. Thesis, Agronomy and Soil Science; 1975.

306. Tenma, Howard H. Some characteristics of non-crystalline constituents in Hawaiian soils. M.Sc. Thesis, Soil Science; 1965.

307. Teranishi, Dennis Yoshito. The effects of silicon, phosphorus, and soil pH and their interactions on yield and nutrient uptake of sugarcane. M.Sc. Thesis, Soil Science; August 1968.

308. Thiagalingam, Kandiah. Effect of temperature and biological control chemicals on nitrogen transformation in Hawaiian soils. M.Sc. Thesis, Soil Science; June 1967.

309. Thiagalingam, Kandiah. Effects of calcium silicate on yield and nutrient uptake and mechanism of silicon transport in plants. Ph.D. Dissertation, Agronomy and Soil Science; August 1971.

310. Tom, Annie Kam Sau. The nickel content of some Hawaiian soils and plants and the relation of nickel to the growth of plants. M.Sc. (Soil Chemistry) Graduate Division; 1952.

311. Tomenang, Antonio Ablan. Comparative effects of forest and pasture on some physical properties of latosolic soils. M.Sc. Thesis, Soil Science; January 1966.

312. Trangmar, Bruce Blair. Spatial variability of soil properties in Sitiung, West Sumatra, Indonesia. Ph.D. Dissertation, Agronomy and Soil Science; August 1984.

313. Trouse, Albert Charles Jr. Effects of compression of some subtropical soils on the soil properties and upon root development. Ph.D. Dissertation, Soil Science; January 1964.

314. Tsuji, Gordon Yukio. Measurement and evaluation of soil water transmission coefficients in some Hawaiian

soils. M.Sc. Thesis, Soil Science; August 1967.

315. Tuivavalagi, Nacanieli S. Maize response to nitrogen, phosphorus, other nutrients, and planting density. M.Sc. Thesis, Agronomy and Soil Science; May 1986.

316. Uchida, Raymond S. The effect of calcium silicate on cation exchange capacity and on exchangeable potassium, calcium and magnesium in a field trial on a Hydric Dystrandept. M.Sc. Thesis, Agronomy and Soil Science; May 1973.

317. Uehara, Goro. The nature and properties of the soils of the red and black complex of the Hawaiian Islands. M.Sc. Thesis, Graduate Division (Soil Science); February 1956.

318. Van Den Beldt, Rick J. Leucaena leucocephala (Lam.) deWit for wood production. Ph.D. Dissertation, Agronomy and Soil Science; August 1983.

319. Vander Zaag, Peter. The phosphorus requirements of root crops. Ph.D. Dissertation, Agronomy and Soil Science; May 1979.

320. Varde, Naraina P. S. Performance of year-round cropping systems on three tropical soil families. Ph.D. Dissertation, Agronomy and Soil Science; August 1984.

321. Vasuvat, Yenchai S. Effect of temperature on different concentrations of chloride salts on available nitrogen and carbon dioxide release in Akaka soil. M.Sc. Thesis, Soil Science; December 1970.

322. Verawudh, Jindarath. Effects of nitrogen and night temperature on the physiology of flower induction in pineapple (Ananas comosus (L.) Merrill). Ph.D. Dissertation, Agronomy and Soil Science; December 1983.

323. Villanueva, Marianito R. Performance of maize (Zea mays L.) at varying plant populations as influenced by genotype and field environments. M.Sc. Thesis, Agronomy and Soil Science; 1971.

324. Vinyaratana, Suta. The influence of liming of a Humic Latosol soil on the growth of sorghum. M.Sc. Thesis, Soil Science; 1961.

325. Vityakon, Patma. Effects of environmental factors on nutrients and antinutrient contents of selected leafy vegetables. Ph.D. Dissertation, Agronomy and Soil Science; May 1986.

326. Voss, Roylyn Lee. The characteristics and genesis of the Akaka and Hilo Soils of Island of Hawaii. M.Sc. Thesis, Soil Science; 1969.

327. Wahab, Hassan Bin Abdul. The changes in the distribution of pasture and weed species in a grazed tropical pasture. Ph.D. Dissertation, Agronomy and Soil Science; 1979.

328. Walker, James Lester. Pedogenesis of some highly ferruginous formations in Hawaii. Ph.D. Dissertation, Graduate School (Soil Science); 1962.

329. Walker, Phyllis Ann. The identification and inheritance of the yellow flower pigments in Desmodium sandwicense E. Mey. M.Sc. Thesis, Agronomy; June 1969.

330. Walters, Gerald Alan. Photosynthesis, respiration, transpiration, and growth of Acacia koa seedlings as affected by photosynthetic photon flux density. Ph.D. Dissertation, Agronomy and Soil Science; December 1981.

331. Wambiji, Henry. Salinity tolerance of the pineapple plant. M.Sc. Thesis, Agronomy and Soil Science;

September 1972.

332. Wann, Shing-Sun. Solute dispersion in an Oxisol. Ph.D. Dissertation, Agronomy and Soil Science; December 1976.

333. Watanabe, Winifred Naomi. Effect of nitrogen and season on the yield, protein, and amino acid contents of two Hawaiian corn varieties. M.Sc. Thesis, Agronomy and Soil Science; December 1976.

334. Weimer, Robert Dale. The effects of several herbicides on eight sugarcane varieties. M.Sc. Thesis, Agronomy; February 1963.

335. Whitney, Arthur Sheldon. Nitrogen fixation by three tropical forage legumes and the utilization of legume-fixed nitrogen by their associated grasses. Ph.D. Dissertation, Soil Science; January 1966.

336. Widjaja-Adhi, I Putu Gedjer. Predicting maize response to phosphorus application in relation to residual phosphorus in Paleudult and Eutrustox soils. Ph.D. Dissertation, Agronomy and Soil Science; May 1983.

337. Wiganda, D. S. Shobar. Study of the physiology of Azolla and its use as a green manure for rice. Ph.D. Dissertation, Agronomy and Soil Science; August 1986.

338. Wiles, Walter T. The suitability of some Typic Paleudults for oil palm production. M.Sc. Thesis, Agronomy and Soil Science; December 1978.

339. Woolfenden, Robert Baines II. Population dynamics of Rhizobium japonicum and Rhizobium leguminosarum in host and non- host rhizospheres. M.Sc. Thesis, Agronomy and Soil Science; December 1982.

340. Woomer, Paul Lester. Predicting the abundance of indigenous and the persistence of introduced rhizobia in tropical soils. Ph.D. Dissertation, Agronomy and Soil Science; May 1990.

341. Woomer, Paul Lester. Root tuberization and nitrogen fixation by Pachyrhizus erosus (L.). M.Sc. Thesis, Agronomy and Soil Science; May 1979.

342. Yaibuathes, Nuanchavee. An investigation of the tropical Histosols in Hawaii. Ph.D. Dissertation, Soil Science; 1971.

343. Yaibuathes, Nuanchavee. Comparative studies of oxic horizons. M.Sc. Thesis, Soil Science; January 1969.

344. Yamane, Vernon Keiso. Adsorption of s-triazine herbicides on soils as affected by adsorbent-pH interactions. M.Sc. Thesis, Soil Science; September 1968.

345. Yang, Cecelia Han. Residual effects of herbicides in soils and methods for their evaluation. M.Sc. Thesis, Soil Science; June 1965.

346. Yaptenco, Catalino Camanzo Jr. The phosphorus nutrition of seedlings in relation to phosphate fixation by two Hawaiian soils. M.Sc. Thesis, Soil Science; 1963.

347. Yassin, Mohammed Awadalla. Studies in the inheritance and enzymatic detection of ratoon stunting disease of sugarcane. M.Sc. Thesis, Agronomy; 1968.

348. Yoder, Ronald Carroll. Effects of thermoperiod on the stomatal opening and transpiration of pineapple (Ananas comosus (L.) Merr.). M.Sc. Thesis, Agronomy; 1968.

349. Yokoyama, James S. Soil-air-water relationships in Hawaiian soils. M.Sc. Thesis, Soil Science; January 1969.

350. Young, Chiu-Chung. Allelopathy in a grass-legume association: a case study with Hemarthria altissima and Desmodium intortum. Ph.D. Dissertation, Agronomy and Soil Science; May 1979.

351. Yu, Wang Ki. Differential adsorption of K, Ca and Mg by tropical soils and their uptake by kikuyugrass. Ph.D. Dissertation in Agronomy and Soil Science; May 1986.

352. Yu, Wang Ki. Effects of physico-chemical properties on the bulk electrical conductivity of tropical soils. M.Sc. Thesis, Agronomy and Soil Science; May 1981.

353. Yusop, M. K. Nitrogen fertilization and nitrate accumulation in some Hawaiian plants and soils. M.Sc. Thesis, Soil Science; December 1975.

Alphabetical list of modified titles

Clonal propagation of Acacia koa by tissue culture and conventional methods. 287

Collection, conservation and evaluation of Gliricidia sepium germplasm. 111

Comparative effects of calcium carbonate and calcium silicate on the yield of sudangrass grown in a Ferruginous Latosol and a Hydrol Humic Latosol. 205

Comparative effects of forest and pasture on some physical properties of Latosolic soils. 311

Comparative evaluation of some diagnostic techniques for determining the nutrient requirement of maize grown on Hydric Dystrandepts. 86

Comparative rheological behavior of suspended clays with varying ionic composition. 66

Comparative studies of oxic horizons. 343

Composition of Mekong River silty and its possible role as a source of plant nutrient in the Delta. 215

Compression of some subtropical soils on the soil properties and upon root development. 313

Computer simulation of soil processes relevant to irrigation and fertilizer management. 157

Coppice management of Leucaena leucocephala. 233

Correlation of chemical tests for phosphorus with crop response to phosphorus fertilization in Hawaiian soils. 103

Crop growth model for predicting corn (Zea mays) performance in the tropics. 284

Crust development in a Titaniferous Ferruginous Latosol on Kauai, Hawaii. 204

Decomposing organic matter on aluminum chemistry and phytotoxicity. 120

Degradation of atrazine and related triazines in Hawaiian soils. 217

Degradation of specifically labeled diuron in soil and availability of its residues to oats. 81

Dehydration and heavy liming on plant nutrition in the amorphous and crystalline tropical soils of Hawaii. 249

Dehydration curves and differential thermal curves of clays from Hawaiian Soils. 192

Dehydration on physico-chemical properties of selected volcanic ash soils from Hawaii. 171

Desorption of adsorbed ametryn and diuron from soils and soil components in relation to rates, mechanisms, and energy of adsorption reactions. 209

Detection and analysis of slope instability, southeast Oahu, Hawaii. 143

Determination and concentration of zinc in pineapple plants and soils. 181

Development of a land suitability classification for potatoes (Solanum tuberosum). 186

Diagnosis of nutritional disorders in Eucalyptus saligna seedlings and their response to fertilization in forest soils.

Evaluating and mapping the fertility of soils of the Island of Maui. 231

Evaluating mycorrhizal inoculum levels in soil and quantifying their contribution to the phosphorus nutrition of cowpea. 75

Evaluation of phosphorus fertilizer materials on two benchmark soils of the tropics. 122

Extraction methodology for determining salinity and sodicity in Hawaiian soils. 115

Factors affecting soil molybdenum availability and molybdenum fertilization of tropical pasture legumes. 298

Fate of ametryne in soil, nutrient solution-sugarcane and soil-sugarcane systems. 114

Fertilizing sugar cane in Hawaii. 197

Gene action in the inheritance of agronomic traits in intervarietal diallel crosses and relative importance of gene effects for quantitative characters in Zea mays L. 277

Genesis and morphology of secondary products in selected volcanic ash soils from the Island of Hawaii. 132

Genesis, classification, and land use potential of some Ultisols of Maui, Hawaii. 153

Genesis, classification, and land use potential of some Mollisols of Maui, Hawaii. 191

Genesis of a climosequence of soils in the Kohala basin. 105

Genesis of certain Hawaiian Paleosols and their alteration following burial. 37

Genesis of secondary micas from basalts and related rocks in the Hawaiian Islands. 144

Genetic and agronomic studies of efficiency in phosphate utilization by corn (Zea mays). 242

Genetic and developmental studies in the species Sclerostachya fusca and Narenga porphyrocoma and their hybrids. 299

Genetic and environmental effects on silage productivity of corn (Zea mays). 168

Genetic studies in Desmodium canum. 74

Genetic study of the Gray Hydromorphic soils of the Hawaiian Islands. 134

Genetics of maturity and photoperiod sensitivity in maize. 177

Geostatistical approach to the mapping of acid sulfate soils. 5

Grain and forage legume yields, with and without intercropping and the effect of leucaena green leaf manuring on nitrogen economy of corn. 55

Growth and development of taro, Colocasia esculenta in relation to selected cultural management practices. 91

Growth and yield responses of Glycine max and Phaseolus vulgaris to mode on nitrogen nutrition and temperature changes with elevation. 109

Interspecific hybridization in the genus Desmodium. 60

Ion retention and movement in soils with variable charge colloids. 297

Ionic activity relations in the flocculation saline and sodic soils. 108

Irrigation of sugar cane in Hawaii. 12

Lahaina silty clay soils forming from different parent materials. 159

Latosols: Mineral allocation and content. 302

Leucaena leucocephala for maximum yield and nitrogen contribution to intercropped corn. 117

Leucaena leucocephala for wood production. 318

Light intensity and photoperiod on pineapple seedling development. 23

Lime and phosphorus in reducing the toxicity of aluminum to (Coffea arabica) seedlings grown on two Hawaiian soils. 196

Liming and potassium fertilization on the nutrition of sugarcane and Desmodium species. 201

Long-term phosphate fertilization on cation exchange (CEC) and cation movement in variable charge-soils. 212

Maize performance (Zea mays) at varying plant populations as influenced by genotype and field environments. 323

Maize response to nitrogen, phosphorus, other nutrients, and planting density. 315

Maize variety performance in three tropical soil families and their response to N and P fertilization. 267

Maize yields and soil erosional losses associated with conservation and conventional tillage practices on a Tropical Aridisol. 92

Management of Crotalaria juncea green manure on the yield and nitrogen uptake of maize. 87

Mapping zinc fertility of soils using indicator plants and soil analyses. 251

Measurement and evaluation of soil water transmission coefficients in some Hawaiian soils. 314

Mechanization of taro (Colocasia esculenta) culture. 148

Method of propagation, age of transplanting, and pre-transplanting treatments on growth and N2 fixation of Leucaena leucocephala. 292

Metribuzin, nitrate and salt distribution under drip irrigation. 101

Mineral analyses of Hawaiian surface and seepage waters. 164

Mineralogical composition of a soil profile from the Naiwa family of the Ferruginous Humic Latosol group. 303

Modeling pineapple growth and inflorescence development. 98

Modeling pineapple inflorescence development. 97

Moisture and biological control chemicals on nitrogen transformation in Hawaiian soils. 52

Molybdenum and interacting elements on the performance of tropical pasture-forage legumes. 240

Molybdenum content of pasture species and some factors that affect it. 165

Molybdenum content of some Hawaiian soil families. 152

Molybdenum in the Hawaiian soils and the reaction of vegetation to the application of aluminum. 131

Movement and availability of nitrogen in soils. 150

Mycorrhizal inoculum potential of soil and response of cowpea to inoculation on a Tropeptic Eutrustox. 27

N and Si on growth and yield of rice. 135

N rates and legume cover crops on maize yields and erosion. 278

Native fixed ammonium and fixation of applied ammonium in Hawaiian soils. 198

Nature and distribution of organic nitrogen in tropical soil. 44

Nature and properties of the soils of the red and black complex of the Hawaiian Islands. 317

Nature of argillic horizon in Hawaiian Ultisols. 265

Nickel content of some Hawaiian soils and plants and the relation of nickel to the growth of plants. 310

Nitrogen and harvest date on growth and yield of ratooned grain sorghum (Sorghum bicolor). 112

Nitrogen and night temperature on the physiology of flower induction in pineapple (Ananas comosus). 322

Nitrogen and phosphorus on extractible water by maize and simulating maize growth on a Tropeptic Eutrustox. 56

Nitrogen and season on the yield, protein, and amino acid contents of two Hawaiian corn varieties. 333

Nitrogen fertilization and nitrate accumulation in some Hawaiian plants and soils. 353

Nitrogen fixation by three tropical forage legumes and the utilization of legume-fixed nitrogen by their associated grasses. 335

Nitrogen fixation in field-grown legumes measured by the 15N isotope dilution and the difference methods. 147

Nitrogen mineralization of seven multipurpose tree green manures: rates, patterns and residual effects on soil N mineralization. 219

Nitrogen nutrition of the pineapple plant, Ananas comosus, soil nitrogen status, and dynamics of the Reniform nematode population, Rotylenchulus reniformis, in relation to the form of nitrogen fertilizer, soil acidity, and fumigation. 82

Nitrogen transformation and nitrate adsorption in soils. 283

Nodulation of selected species of legumes in Hawaiian soils and photoperiod effects on flowering in Desmodium species. 47

Nutrient distribution in banana and its relationship to leaf spot disease. 102

Nutrients on the yield and nutritional level of sudan grass grown on an Aluminous Ferruginous Latosol. 207

Occurrence and distribution of dolomite in the subsoils of the Red River Valley. 274

Organic matter decomposition, nitrate reduction and redox potential relationships in a Hawaiian Oxisol. 25

Pedogenesis of some highly ferruginous formations in Hawaii. 328

Performance and management of fast-growing tropical trees in diverse Hawaiian environments. 77

Performance of year-round cropping systems on three tropical soil families. 320

pH, P, and irrigation frequency on the yields and mineral composition of sugarcane grown under saline conditions. 271

pH, silicon and phosphorus treatments on growth and yield of papaya (Carica papaya L.). 3

Phosphate adsorption and cation adsorption by soil and implications for plant nutrition. 293

Phosphate fertilization on zinc adsorption by soils and the labile zinc pool. 20

Phosphorus requirements of root crops. 319

Phosphorus and utilization of phosphate fertilizers in some great soil groups of Hawaii. 69

Phosphorus fixation in soils containing amorphous and crystalline aluminum and iron compounds. 160

Phosphorus nutrition of banana as influenced by mycorrhizae and fertilizers. 173

Phosphorus nutrition of seedlings in relation to phosphate fixation by two Hawaiian soils. 346

Phosphorus nutrition of two grain legumes as affected by mode of nitrogen nutrition. 51

Phosphorus, potassium and calcium fertilization on peanut yield, quality and nutrient uptake. 78

Phosphorus requirements of cereal crops with emphasis on the tropics. 195

Phosphorus, silicon and zinc applications on the yield and mineral composition of sugarcane. 13

Phosphorus-silicon interactions in soils and plants. 263

Phosphorus solubility in paddy soils in relation to rice and Azolla yields. 289

Photosynthesis, respiration, transpiration, and growth of Acacia koa seedlings as affected by photosynthetic photon flux density. 330

Properties of the Black Earths of Hawaii. 253

Rate of ethephon and carrier on inflorescence initiation in 'smooth cayenne' pineapple (Ananas comosus). 225

Reclassification of Andepts of the State of Hawaii in the proposed order Andisols. 255

Relationship between soil and quantitative terrain factors. 48

Relationship between soil classes, soil properties, plant growth and soil management treatments in the Goodi Mill area of Queensland. 206

Relationship of potassium and magnesium for sudangrass production in selected Hawaiian soils. 275

Relationship of soil composition to rheological properties and the compactibility of some Hawaiian soils. 154

Relative response of the pineapple plant Ananas comosus under varying nitrogen rates and carriers under different levels of light intensity. 64

Age, temperature and duration of exposure to temperature on susceptibility of pineapple to floral induction with ethephon. 65

Release of non-exchangeable potassium in Hawaiian sugar cane soils. 28

Residual effects of calcium silicate on the movement and availability of nutrients in tropical soils. 156

Residual effects of herbicides in soils and methods for their evaluation. 345

Residual silicon, phosphorus and soil pH on yield and nutrient uptake of a ratoon sugarcane crop. 262

Residue effects on runoff and erosion under simulated rainfall from steeply sloping tropical soils. 106

Response and nutrient uptake of peanut on Hawaiian Latosols treated with potassium and calcium. 227

Revision of Soil Taxonomy in the classification of low activity clay soils. 256

Rhizobium strain, phosphorus applied, and inoculation rate on the nodulation and yield of soybean (Glycine max cv. 'Davis'). 216

Role of soluble silicate on the fixation and release of phosphorus of tropical soils. 137

Root properties of sugarcane (Saccharum officinarum) in relation to nutrient uptake. 2

Root temperature, nitrogen, and phosphorus nutrition on the growth of kikuyugrass (Pennistum clandestinum), pangolagrass (Digitaria decumbens) and greenleaf desmodium (Desmodium intortum). 90

Root temperatures and nitrogen carriers on nutrient uptake, growth and composition of pineapple plants, Ananas comosus. 252

Root tuberization and nitrogen fixation by Pachyrhizus erosus. 341

Roots and tillage on soil erosion on a weathered Hawaiian soil with low erodibility. 62

Use of vesicular-arbuscular mycorrhizal fungi for establishment of effectively nodulated legumes on a moderately weathered Oxisol subjected to simulated erosion. 31

Utilization of nitrates by the coffee plant. 304

Utilization of the four electrode technique for assessment of field salinity status in irrigated sugarcane soils of Hawaii. 35

Vegetative growth, yield, and fruit quality of pineapple as influenced by moisture stress and potassium. 18

Verification of simulated water use by sugarcane. 10

Vesicular-arbuscular mycorrhiza on Leucaena leucocephala growth, water relations and nutrient acquisition. 130

Water stress on Pineapple (Ananas comosus). 146

Water transmission and quality in selected Hawaii soils. 68

Weed ecology and economic importance of Emilia javanica and E. sonchifolia. 99

Yield of 'Williams' hybrid banana in relation to fertility, plant size and climate. 179

Yield response of sugar cane as a function of soil and supplemental levels of phosphorus and potassium, and its economic evaluation. 281

Yield response to zinc and the assessment of three extracting solutions for their estimation of available zinc in Hawaiian soils. 237

Keyword Index to Theses and Dissertations

Alphabetical Listing of Graduate Students

Abouna, Mohammad AbuBaker 1981.
AbuZeid, Mohammad, Osman 1969.
Adlan, Hassan Ali 1969.
Agarwal, Anand Swaroop 1967.
Ahmad, Faridah Hj 1985.
Ahmad, Nazir 1980.
Ahmed, Mohammed Tahir 1969.
Ahmed, Saleem 1965.
Akyeampong, Michael P. 1980.
Alcantara, Antonio J. 1980.
Alcordo, Isabelo Suelo 1963.
Alexander, William P. 1922.
Ali, Muhammad Yassin 1986.
Aliusius, Djohan 1987.
Alvarez, Robustiano 1975.
Alvarez de la Roche, Andres 1988.
Anders, Merle M. 1988.
Aquino-Thun, Rosalinda 1986.
Arifin, Rudi 1986.
Aragon, Ernesto L. 1975.
Arain, Mohammad Saeed 1976.
Ardi 1986.
Aromose, Anthony 1970.
Asghar, Mohammad 1972, 1977.
Atkinson, Ian Athol Edward 1969.
Awemo, John W. 1983.
Ayres, Arthur Smiley 1941, 1949.
Azih, Anthony Oseloka. 1978.
Aziz, Taufiqul 1988.
Baclig, Ernesto V. 1987.
Balasubramanian, Vethaiya Thevar 1974.
Barnes, Edwin Alonzo III. 1978, 1981.
Barrion, Melinda M. 1986.
Beckmann, Geoffery George 1963.
Bellows, Barbara Carol 1981.
Blomberg, Norman Eugene 1958.
Boonduang, Ampan 1972.
Boyd, Charles, C. 1968.
Braide, Jonathan Oko 1971, 1977.
Briones, Angelina Mariano 1969.
Briones, Aurelio Aguila 1963, 1969.
Bromdep, Amara 1966.
Bruce, Romeo C 1971.
Cagauan, Bernardino Garcia, Jr. 1963, 1969.
Cassman, Kenneth G. 1979.
Chakravorty, Ashok Kumar 1968.
Chan, Jenn Kwang 1972.
Chase, Robert G. 1982.
Chaudhary, Shiva Kumar 1984.
Chinene Vernon R. N. 1983.
Chinn, Edwin Yan Hoy 1956.
Chong, She-Kong 1979.
Chotimon, Adul 1969.
Chow, Kuon-hon 1968.
Chu, Ada Ellen Chang 1951.
Coats, John S. 1990.
Connelly, Paul Raymond 1969, 1972
Conway, Michael James 1977.
Dangler, Edgar W. 1973.
Daniel, Joshua Nallathamby 1985.
Daud, Abdul R. B. 1976.
De Datta, Surajit Kumar 1963.
de la Pena, Ramon Serrano 1967.
Del Rosario, Beatriz P. 1982.
Dias, Irwin Patrick Solomon 1965.
Djisbar, Alimin 1985.
Dollah, Abdul Aziz Bin 1972.
Dowdle, Stephen Francis 1980, 1985.
Dudley, Nicklos Sandor 1990.
Eastman, Clyde 1963.
El-Tahir, Awad El-Hag Mohamed. 1976.
Elawad, Salman Hassan 1978.
Elder, Vincent Allen 1978.
Englerth, Edward Jerome Jr. 1969.
Eriksen, Flemming Iskov 1980.
Escalada, Rodolfo Gonzales 1969, 1973.
Escano, Crisanto R. 1980.
Evans, Dale Ordway 1981.
Evensen, Carl Lovell Imaikalani 1984, 1989.
Ezumah, Humphrey Chukunoyere 1970, 1972.
Fahrney, Keith S. 1987.
Farah, Mohamad Osman 1984.
Fernandez, Nicanor C. 1963.
Fischer, Charles 1977.
Fithian, Joel Remington 1983.
Fleisch, Herve 1986, 1988.
Floresca, Emmanuel T. 1975.
Fujimoto, Charles Kazuyuki 1947.
Furukawa, Michael Hitoshi 1984.
Gabuin, Johnson Nadarikwu 1969.
Gamido, Roger Bautista 1964.
Gangwar, Mahendra Singh 1967.
Gardiner Jr., Harold Casey 1967.
Garnier, Charles L. 1988.
Gavenda, Robert Thomas 1989.
Gazdar, Muhammad Nasir 1969.

George, Thomas 1988.
Gill, William Robert Gill 1949.
Glover, Nancy Lorraine 1986.
Golingai, Sylverius 1972.
Gonzales, Onesimo Medina 1981.
Goswami, Kishore Puri 1972.
Gowland, Patricia Ann 1982.
Gribble, Grant William 1974.
Guevarra, Anaclato L. 1976.
Hagihara, Harold Haru 1953.
Hammond, Lawrence L. 1969.
Hansen, James William 1989.
Harada, Walter Takashi 1970.
Harris, David Joel 1983.
Hashimoto, Isao 1961. (Wis)
Hassan, Tjetje Soekarna 1969.
Hirunburana, Niwat 1971, 1974.
Ho, Merry Cris 1981.
Houng, Kun-Huang 1964.
Hsia, Yu-Jen 1955.
Huang, Ruey-Shyang 1987.
Huang, Yoong Lee 1955.
Hudnall, Wayne H. 1977.
Hurdus, Allen R. 1975.
Hussain, Mohammad Sultan 1967.
Ibrahim, Abdul Aziz bin 1968.
Ibrahim, Muhammad 1985.
Ikawa, Haruyoshi 1956.
Ingamells, James Lee 1976, 1981.
Ishizaki, Stanley M. 1987.
Jan-orn, Jinda 1969.
Jang, Lin Li-Ling 1987.
Jellinger, Moanikeala 1977.
Juang, Tzo-chuan 1965, 1971.
Kadzimin, Saleh Bin 1975.
Kagabo, Wilson Emaanzi 1986.
Kagbo, Robert Ben 1976.
Kaiulo, James Vele 1983.
Kanehiro, Yoshinori 1948, 1964.
Kapteyn, Robert Jan 1963.
Karmatias 1985.
Kawano, Yoshihiko 1957.
Keng, Johnny Ching-Win 1974.
Khalid, Rashid Ahmad 1974.
Khan, Muhammad Akram 1979.
Kim, Sun Kwan 1989.
Kimura, Hubert S. 1966.
King, Donald Lohr 1961.
Kleinjans, John Klaaren 1989.
Kourouma, Laye 1979, 1986.
Kurmarohita, Kunchit 1964.
Kunishi, Harry Mikio 1956.
Lai, Sung-ho 1967.
Lee, Chee Chow 1987.
Lee, Myoung Hoon 1983.
Legowo, Eko 1987.
Liang, Sheng Lewis 1976.
Lim, Howard Soo Kil 1976, 1979.
Lin, Mu Lien 1987.
Liu, Po-ling 1965.
Lo, Kwong Fai Andrew 1982.
Loganathan, Paripurnananda 1967.
Logrono, Manuel L. 1990.
Long, Pei Phong 1969.
Lower, Robert A. 1982.
Lumpkin, Thomas Adam 1983.
Lyman, Clarence 1941.
MacDicken, Kenneth Glenn 1983.
Mahilum, Benjamin C. 1965.
Malik, Hameed Ullah. 1990.
Manjunath, Aswathanarayana Rao 1989.
Manrique, Luis A. 1982.
Manuelpillai, R. George 1967.
Mapa, Ranjith Bandara 1984.
Marzola, Deo Lauro 1978, 1984.
Matella, Lipalesa Rose 1986.
Matsusaka, Yoshito 1952.
May, Sheila N. 1979.
Mekaru, Toshio 1969.
Memon, Kazi Suleman 1982.
Mendoza, Jr. Saturnino P. 1963.
Midkiff, John Howard 1921.
Mikami, David T. 1966.
Miller, Mark E. 1987.
Mills-Packo, Pamela Ann 1989.
Misra, Maheshi Kumar 1970.
Miyasaka, Susan Chie 1979.
Mohamad, Ahmad El Fadil 1966.
Montagne, Hebel Wendelina 1970.
Monteith, Nigel Hugh 1961, 1967.
Moody, Keith 1966.
Motooka, Philip Susumu 1962.
Mukhtar, Muhammad 1976.
Nakamura, Martha Tsuruye 1957.
Nangju, Dimyati 1972.
Ndiaye, Jean Pierre 1983, 1986.
Nicholls, Douglas F. 1973.
Nishina, Melvin Sanji 1974.
Nyemba, Ronnie Chilele. 1986.
Obien, Santiago Rigonan 1963, 1970.
Oglesby, Karen Allison 1990.
Oldeman, Leonard Rudolf 1971.
Olende, Cornelius Okiniyi 1980.
Oo, Than Tun 1965.

Osaki, Arthur Yoshinori 1983.
Oshiro, Kishin 1969.
Ouattara, Abdramane 1982.
Oya, Jean Chiyoku 1975.
Oya, Kazuhiro 1964.
Pan, Fuh Jiunn 1985.
Pandey, Sheo Ji 1969.
Park, Soon-Jai 1967.
Parra Duque, Alvaro Jose 1983, 1988.
Pecson, Richard D. 1985.
Pellek, Richard 1977.
Periaswamy, Siripalli Periyannan 1973, 1976.
Pescador, Pedro, Jr. 1963.
Pinchin, Janice E. 1986.
Plucknett, Donald Lovelle 1961.
Pongsakul, Pitchet 1984.
Prasomsook, Suwit 1973.
Pulam, Taweesak 1978.
Puri, Krishan Dev 1969.
Pyon, Jong Yong 1975.
Quintana, Romeo U. 1966.
Qureshi, Ata Hussain 1978.
Rana, Sarit Kumar 1964
Rahman, Ausafur 1974.
Ramawas, Siti Zainab 1983.
Rao, Palakurthi Suresh Chandra 1974.
Rashid, Abdul 1986.
Ravoof, Azeez Abdul 1973.
Raymondo, Martin Eusebio 1965.
Raynor, William Charles 1989.
Recel, Modesto Raganit 1980, 1983.
Reddy, Ganta Gopal 1964.
Redman, Francis Hamilton. 1958.
Rixon, Alan James 1962.
Robertson, John Berry Jr. 1951.
Rojas-Gomez, Eybar Jesus 1966.
Rosenau, Andrew Jack 1969.
Roy, Animesh Chandra 1969.
Saing, Soe 1964.
Sangtian, Cherm 1969.
Santo, Lance Teizo. 1974.
Santoso, Djoko 1981.
Sato, Harry Hideo. 1971
Schroth, Charles Lorenz 1970.
Schultz, Janet M. 1988.
Segovia, Antonio J. 1979.
Seng, Tee 1970.
Sharma, Munna Lai 1966.
Sherman, G. Donald 1937.
Shimabukuro, Zenyu 1962.
Shin, Han-Poong 1970, 1972.
Shinshiro, Larry Kenji 1981.
Shirzai, Ghulam A. 1965.
Silva, Camillus Gregory 1966.
Silva, James Anthony 1959.
Sinanuwong, Somsri 1972.
Singh, Budh Ram 1968.
Singh, Upendra 1985.
Singleton, Paul W. 1979, 1982.
Skolmen, Roger, G. 1977.
Soekardi, M. 1985.
Somphone, Sombath 1980.
Sorensson, Charles T. 1987.
Soundararajan, S. S. 1971.
South, William Tovey 1983.
Stoop, Willem Adriaan 1974.
Suehisa, Robert Hikaru 1961.
Syed, Muhammad Mehdi 1969, 1975.
Syed-Fadzil, Syed-Farooq Bin 1972.
Taal, Saihou Omar M. 1979.
Talballa, Hassan Ali 1968.
Tama Kato 1975.
Tamimi, Yusuf Nimr 1964.
Tamura, Tsuneo 1951, 1952.
Tanada, Takuma 1944.
Tengah, Abdullah Bin Che 1975.
Tenma, Howard H. 1965.
Teranishi, Dennis Yoshito 1968.
Thiagalingam, Kandiah 1967, 1971.
Tom, Annie Kam Sau 1952.
Tomenang, Antonio Ablan 1966.
Trangmar, Bruce Blair 1984.
Trouse, Albert Charles Jr. 1964.
Tsuji, Gordon Yukio 1967.
Tuivavalagi, Nacanieli S. 1986.
Uchida, Raymond S. 1973.
Uehara, Goro 1956.
Van Den Beldt, Rick J. 1983.
Varde, Naraina P. S. 1984.
Vasuvat, Yenchai S. 1970.
Verawudh, Jindarath 1983.
Villanueva, Marianito R. 1971.
Vinyaratana, Suta 1961.
Vityakon, Patma 1986.
Voss, Roylyn Lee 1969.
Wahab, Hassan Bin Abdul 1979.
Walker, James Lester 1962.
Walker, Phyllis Ann 1969.
Walters, Gerald Alan 1981.
Wambiji, Henry 1972.
Wann, Shing-Sun 1976.
Watanabe, Winifred Naomi 1976.
Weimer, Robert Dale 1963.
Whitney, Arthur Sheldon 1966.

Widjaja-Adhi, I Putu Gedjer 1983.
Wiganda, D. S. Shobar 1986.
Wiles, Walter T. 1978.
Woolfenden, Robert Baines II. 1982.
Woomer, Paul Lester 1979, 1990.
Yaibuathes, Nuanchavee 1969, 1971.
Yamane, Vernon Keiso 1968.
Yang, Cecelia Han 1965.
Yaptenco, Catalino Camanzo Jr. 1963.
Yassin, Mohammed Awadalla 1968.
Yoder, Ronald Carroll 1968.
Yokoyama, James S. 1969.
Young, Chiu-Chung 1979.
Yu, Wang Ki 1981, 1986.
Yusop, M. K. 1975.
Zaag, Peter Vander 1979.